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WORK OF THE INSTITUTE
 FOR ELECTRIC ECONOMY IN LJUBLJANA

Milan Vidmar

The entire work of the institute for the Electric Economy in Ljubljana is concerned with the electrification needs of Slovenia. The institute studies particular problems extensively and thoroughly and publishes the results in reports. Each report has a short introductory summary, never longer than two pages. This summary makes it possible for a field worker to apply the results of the study immediately, leaving close examination of the problem until later when he finds time to study the complete report.

From the beginning, the institute has worked on the theory that all reports reflect the staff's collective opinion; the entire staff is responsible for every report. The staff discusses every aspect of reports in assembly sessions, so every member has an opportunity to make additions or corrections. Since the institute is well aware of its responsibility for its products, it prepares, sifts, revises, and perfects them thoroughly and logically.

The institute also has broader responsibilities. Since electrification demands great efforts from the working people and every Yugoslav citizen, it is the responsibility of the institute to inform the masses about its problems and objectives. The institute has provided for this by erecting a special building in which there is a large lecture hall for popular scientific lectures, important scientific conferences, national and international professional conferences, lectures for students of electrical engineering, and special courses for field engineers and technicians working to round out their background with the latest findings in electrical engineering theory. This hall is to be available for events and lectures not strictly pertaining to electrical engineering, for it should be utilized to the fullest extent.

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The Institute for the Electric Economy has experienced and still encounters many difficulties because its reports are not disseminated sufficiently or do not reach the places where they are most needed. In many cases, bureaucratic and administrative difficulties prevent the institute's reports from reaching places where they are needed. All reports of the institute should be printed so an adequate number of copies are available. The institute is to have its own printing shop, so it will be able to solve this problem. It is necessary to inform not only the public but all personnel in the field how much the institute's work has advanced, what concrete findings are already available, and what the contents are of completed reports. Perhaps this need can be met by having a column in the Elektrotehnicki Vesnik (Electrotechnical Herald) which would describe the institute's work.

The following are the 24 reports completed and published up to 1 January 1951:

1948

1. Milan Vidmar, Prof Dr of Technology, O ekonomskom rasponu slobodne prenosne pruge (On the economical design of overhead transmission lines).
2. Milan Vidmar, O rastojanju provodnika od zemlje (The distance of the conduit from the ground).
3. Milan Vidmar, Izvestaj o putovanju u Svajcarsku (A report on a trip to Switzerland).
4. Milan Vidmar, Organizacija i radni program Naucnog Instituta za elektroprivredu u Ljubljani (The organization and working program of the Scientific Institute for the Electric Economy in Ljubljana).
5. Milan Vidmar, O uzemljenju neutralne tocke u trofaznim prenosnim prugama (Grounding the neutral lines of three-phase transmission lines).
6. Milan Vidmar, Kompensacija prenosa elektricne energije (The compensation in electric power transmission).
7. Engr Edvard Hofler, Kratkospojni opit u elektricnoj centrali Velenje (A short-circuit test in the Velenje Electric Power Plant).
8. Milan Vidmar, Izolacioni lanci u nadzemnim prugama 110 kv (Insulation chains in 110-kilovolt overhead power lines).
9. Milan Vidmar, Prenosni provodnici u nadzemnim prugama za 110 kv (Transmission conductors in 110-kilovolt overhead power lines).
10. Engineers Ozbolt Gros, Janko Rudolf, Edvard Hofler, and Brank Vajda, Izvestaj o gradnji Instituta za elektroprivredu u 1949 godini (A report on the construction of the Institute for the Electric Economy in 1949).
11. Engr Edvard Hofler, O nacinu prikljucenja Petersenovih kalemova u 110 i 35 kilovoltne mreze (On the method of connecting Petersen's coils in 110- and 35-kilovolt networks).
12. Engr Ozbolt Gros, Izvestaj o elektroenergetskoj inspekciji (A report on electric power inspection).
13. Engr Milan Vidmar, Jr, O budjenju velikih sinhronih generatora (On induction in large synchronous generators).

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14. Milan Vidmar, O provodnicima iz aluminija u prenosnim prugama (Aluminum conductors in power transmission lines).
15. Engr Edvard Hofler, Zastita bloka generator-transformatora (Protection of the generator transformer unit).
16. Milan Vidmar, Projekat transformatora 31,5 MVA, 110/35 kV, 50 Hz (The project for a 31.5 million-volt-ampere, 110/35-kilovolt, 50-kilocycle-transformer).
17. Engr Janko Rudolf, O rekonstrukciji nadzemne prenosne pruge Kostolac-Bor (The reconstruction of the Kostolac-Bor overhead power transmission line).
18. Milan Vidmar, Projekat velettransformatora za 31,5 MVA 10/110 kV i 6/110 kV, 50 Hz (The project for a 31.5-million-volt-ampere, 10/110-kilovolt, and 6/110-kilovolt, 50-kilocycle transformer).
19. Milan Vidmar, Projekat transformatora za Jablanicu 31,5 MVA (The project for the 31.5 million-volt-ampere transformer for Jablanica).
20. Milan Vidmar, Transformator 30a za Jablanicu - abnormalna konstrukcija (Transformer 30a for Jablanica - special construction).
21. Ozbolt Gros, Korozije lopatica na vodenim turbinama (Corrosion of vanes in water turbines).
22. Milan Vidmar and Engr Janko Rudolf, Rekonstrukcija prenosne pruge Fala-Lasko (Reconstruction of the Fala-Lasko power transmission line).
23. Milan Vidmar, Studisko putovanje 1950 godine (A study trip in 1950).
24. Engineers Janko Rudolf, Edvard Hofler, Branko Vajda, and Senior Technical Assistant Anton Kosi, Izvestaj o gradnji institutskih objekata u 1950 godini (Report on the construction of the institute's buildings in 1950).

In its future reports, the institute will present not only the titles of future surveys but also summaries of them. The Elektrotehnicki Vesnik will publish in chronological order summaries of the above 24 reports in its future issues.

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